

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/722,203	11/25/2003	Corey A. Salzer	27441.010	6809
36122 . 75	90 11/04/2005		EXAMINER	
SETTER OLLILA, LLC			KIM, PAUL D	
2060 BROADV SUITE 300	VAY		ART UNIT	PAPER NUMBER
BOULDER, CO	O 80302		3729	

DATE MAILED: 11/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

•		e				
	Application No.	Applicant(s)				
	10/722,203	SALZER, COREY A.				
Office Action Summary	Examiner	Art Unit				
	Paul D. Kim	3729				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONE	lely filed he mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 29 Au	<u>gust 2005</u> .					
	action is non-final.					
3) Since this application is in condition for allowan	ce except for formal matters, pro-	secution as to the merits is				
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-24 is/are pending in the application.						
4a) Of the above claim(s) 13-24 is/are withdraw	n from consideration.					
5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) <u>1-12</u> is/are rejected.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)⊠ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>25 November 2003</u> is/are: a)⊠ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the d	* ' '	` '				
Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Example 11.	- · · · · · · · · · · · · · · · · · · ·					
The bath of declaration is objected to by the Exa	ammer. Note the attached Office A	Action of form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign pa) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)-	(d) or (f).				
 Certified copies of the priority documents 	have been received.					
2. Certified copies of the priority documents	have been received in Application	n No				
3. Copies of the certified copies of the priori	•	d in this National Stage				
application from the International Bureau	` ''					
* See the attached detailed Office action for a list of	n une cerunea copies not received	1.				
Attachment(s)		•				

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11/25/03,4/1/04.

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

4) Interview Summary (PTO-413)

6) Other: ____.

Paper No(s)/Mail Date. ___

5) Notice of Informal Patent Application (PTO-152)

Application/Control Number: 10/722,203 Page 2

Art Unit: 3729

DETAILED ACTION

This offi8ce action is a response to the restriction requirement filed on 8/39/2005.

Election/Restrictions

- 1. Applicant's election of Group I, claims 1-12, in the reply filed on 8/29/2005 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).
- Claims 13-24 are withdrawn from further consideration pursuant to 37 CFR
 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 8/29/2005.

Specification

3. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States

Application/Control Number: 10/722,203 Page 3

Art Unit: 3729

only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Higson (US PAT. 6,083,366).

Higson teaches a process of making a sensor comprising steps of: providing a substrate; printing conductive ink on the substrate to form a plurality of electrode regions (equivalent with a micro-electrode array); depositing an electrical insulation (insulating polymer) to cover one of the electrode regions (a planar electrode); sonically ablating the electrical insulation to form an array of pores through the electrical insulation to the conductive ink in the one electrode region; and depositing metal (conducting organic polymer) with into the pores to form an array of electrodes in the one electrode region (see also col. 1,line 49 to col. 2,line 32). The conducting organic polymer should have metal elements mixed with polymer.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Alternatively, Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Higson in view of Uchida et al. (US PAT. 4,464,244) or Satou (JP 11163055 A).

Application/Control Number: 10/722,203

Art Unit: 3729

If applicant still does not agree with the conductive organic polymer having metal elements mixed with polymer, which is not the same with a metal, then Uchida et al. teach a process of making a sensor including a process of filling holes (15) with a conductor in order to electrically connect inner electrodes with outer electrode as shown in Figs. 1 and 2 (see also col. 4, lines 1-7).

On the other hand, Satou teaches a process of making an electric component including a process of filling through-holes with a metal in order to electrically connect inner wiring (3) with outer electrode (4) as shown in Fig. 5 (see also abstract).

Therefore, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify the conductive organic polymer of fabricating a sensor of Higson by a conductor as taught of Uchida et al. or by a metal as taught by Satou in order to electrically connect inner electrodes with outer electrode.

At the time the invention was made, it would have been an obvious matter of design choice to a person of ordinary skill in the art to apply the metallic material as recited in the claimed invention because Applicant has not disclosed that the metallic material as recited in the claimed invention provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected Applicant's invention to perform equally well with either Uchida et al. or Satou because the metallic material as recited in the claimed invention would perform equally well such as electrically conductivity to connect between electrodes in Uchida et al. or Satou. Therefore, it would have been an obvious

matter of design choice to modify the metallic material of Uchida et al. or Satou to obtain the invention as specified in claim 3.

8. Claims 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Higson, modified by Uchida et al. or Satou, and further in view of Hall et al. (US PAT. 4,242,379).

Higson, modified by Uchida et al. or Satou, teaches all of the limitations as set forth above except to treat the metal with thiol. Hall et al. teach an acid inhibitor including a process of treating a metal with thiols in order to prevent corrosion (see also col. 2, lines 55-61). Therefore, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify the metallic material of Higson, modified by Uchida et al. or Satou, by treating the metal with thiols in order to prevent corrosion.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul D. Kim whose telephone number is 571-272-4565. The examiner can normally be reached on Monday-Friday between 7:00 AM to 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 571-272-4690. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/722,203

Art Unit: 3729

Page 6

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Paul D Kim Examiner

Art Unit 3729